HIS LIFE LITERALLY HANGS BY A HAIR.

EXPERIMENTS WITH HUMAN HAIR ON BLOTTING PAPER WITH A 30 CALIBRE REVOLVER AT "CONTACT" AND AT VARIOUS DISTANCES.



scientific men shall have decided that they Auburn, who had been a studious listener The wonderful results of the recent experiments with pistol projectiles bearing upon this point tell plainly enough that many a man has gone to the gallows, con-

firm believer in Sheldon's innocence, con-tends that the whole question depends

Science has changed all that.

Wearing the weary time away in a cell evidence is of minor consequence.

Now, the whole question consequence. of the State Prison at Auburn is a man whose life hangs literally upon a hair. And the conclusion of medico-legal science as to whether that hair was burned by powder from the cartridge which ended a woman's life, or by the hot irons with which she had curied her hair, will condemn him or Sheldon's head. Dr. Benedict, of Weedstand of the state of the state of the spearance of Mrs. Sheldon's head. Dr. Benedict, of Weedstand of the state of the spearance of the s

The crime for which Sheldon occupies a cell among the condemned is the murder of his wife, Eys Remington Sheldon, at Brutus, Cayuga County, on April 30, 1890, More than the condemned is the murder of his wife, Eys Remington Sheldon, at Brutus, Cayuga County, on April 30, 1890, More than the condemned in the murder of his wife, Eys Remington Sheldon as the condemned in the murder of his appeared singed."

Being asked what effect washing would have on singed hair, he said it would remove the evidences of singeing. Asked if little after 11 o'clock on that day her and hody was found. It was Sheldon who The woman had been shot in the end and it was at first supposed she had filed herself. The last person who saw

Then the gossips began to tell that Shelion and his wife had not lived happily together for several years. From that it was but a step to a murder theory. The authorities had Mrs. Sheldon's body exhumed and sely examined. The Coroner's jury found a verdict that the woman had died from a pistol shot fired by pergons unknown. Two weeks later Sheldon was arrested. His trial lasted seven weeks. The defencewas an allbi. It was shown that Sheldon was Jordan, eight miles away, between 10 and 11 o'clock on the morning of the

A vast amount of expert testimony was held the had the woman shot herself the evidence of what science calls a "contact shot" would have been more conclusive than that shown at the post-mortem examination of the head of Mrs. Sheldon. And so, after six hours' deliberation, the jury found against him-murder in the

The case of Sheldon will be famous in legal annuls for the reason that it marks the climax of disagreement among learned doctors and the beginning of experiments so extensive as to furnish positive knowledge by which murder may be known from sulcide without the witness of human eyes. The nature of the killing will be written by the weapon on the body of the dead, and a river of waters will not wash out the

many a man has gone to the gallows, con-victed of taking life, when the supposed victed of taking life, when the supposed Syracuse, Mr. Chisholm said, had been So, on the other hand, careful adjustment of the pistol, the ciothing and the other

at the trial. Last week, at the June meet-

surroundings of a murdered person has enabled a murderer to go scot free, and left the police authorities, Coroner and the upon the extent of singing shown by the hair about the wound, and that all other

FROM A PHOTOGRAPH

Already under conviction. Frank Sheldon is awaiting another trial upon appeal—a trial in which, as in no other, even of recent years, the findings of science will be naramount.

Sheldon between said:

"The next thing I noticed was a lock of halr over the right ear, covering an area as large as your thumb, which stood out in a finify condition, not matted together—very local."

and singed so as to fall off when combed; at one and a half inches the area of singing was somewhat increased, and at two or three inches it was more superficial. The hair was held firmly to the card by rubber n the presence of Drs. Creveling, Forman bands.

Dr. Hall and Mr. Chisholm tried shooting at a tuft of hair which was planed to the side of a building. A pistol of the Sheldon pattern was used. Its calibre was .30. The cartridges were the "Union Metallic," containing 4-10 grain of fulminate and 60 grains of lead. From a distance of 26 inches it was found powder struck the hair at every shot, but there was no sign of singelug. In subsequent shots, at closer range, no singeling was observed until five inches was reached.

Then for the first time there were seen faint traces of a burn; also at four inches. It was very slight at three and two inches.

The bullet dragged the hair into the holes, filling them so tightly that in some

immediately about the hole. As the distance increased the area of powder stains was smaller and of powder grains larger.

In experiments with human hair against the blotting paper at one-half inch there was no singeling of the card. At firm contact there was staining of the paper by smoke, but no powder grains shown; at one-half inch with the hair evenly laid and nicely combed there was little smoke stain of the ear, were no evidence of the ear. Hopen the ear were no evidence of the ear. nicely combed there was little smoke stain of the ear. Upon the ear were no evidences and no powder penetration either partial or complete. At contact the hair was visibly whole face was perfectly clean. There was thinned for an inch or more in diameter no evidence of powder or fired powder.

and Tripp, of Auburn, and experts for the

It was very slight at three and two inches. It was exhumed in the cemetery at Weeds port, said there was little difference between a contact shot and one at four inches. except that the powder spread more. Grains would be imbedded in the skin at thirty inches; at seven inches the skin was thickly covered with grains of powder. At twenty inches the grains would enter the skin and cover a foot of surface; unburned powder grains could be washed off, but burned grains could not be removed.

> Dr. Creveling, one of the State examiners of the New York Medical Society. said that none of the conditions found in experiments at Believue Hospital of shots up to thirty inches existed in Mrs. Sheldon's case. At fo(rty-two inches no powder entered the skin, but a few grains lodged on the skin.

> And it is upon the outcome of all these fine experiments that Sheldon's destlay hangs. The effort of the defence will be of course to show the difficulty of singeing hair at a distance greater than that at which Mrs. Sheldon might have held the pistol; to force a conclusion that the hair was singed not by the overheated curling tongs, but by the pistol shot; that she killed herself.

> The life of Sheldon, and the life of many a one to come after him, are at science's mercy. If its findings are in his favor, the fact that he had led a foul life; that he had for years fought and bickered with his wife and invished his devotion openly upon another woman; that his alibi was shaky; that he was seen with the unfortunate woman last of all persons before he himself. found her dead-all these things which in old-fashioned murder trials were of great pith and moment, will become as naught.

THE D CARTRIDGE THE CURLING TONGS THE PISTOL THE EMPTY SHELL TRANK N THELDON

A NEW BUG OF BAD HABITS

A new bug of feroclous habits and mys-

tims generally in the region of the mouth, and swollen faces and arms No man, woman or child has yet been able to secure a specimen of this common dis-to secure a specimen of this common dis-sleep with their mouths open. These adturber of the peace.

During the last week numerous calls have some to physicians from patients suffering from abnormal swelling of the lips, face and arms. In every instance the physicians from the face from the region of the mouth. The theory deduced is the bug is peculiarly partial to parted lips.

Drs. Newcomb and Jordan, two wellsymptoms have been punctically the same. known physicians, of St. Louis, have been The lips are pured, the jaws are correspondingly onlarged and the patient complains of sharp, shooting pains, extending have also been called in for the same pure from the region of the eyes up over the forehead and head. The eyes are generally bloodshot, the mouth is parched and dry, and every indication of a serious poisoning present. In a few instances the arms one patient, however, said that on arising

internal treatment reduce the swelling in a ;

A case of ordinary poisoning of the severity indicated by the enlarged parts would not so easily succumb, but would require a systematic treatment of long duration. In the cases in hand a lasting cure is only a matter of a few hours.

The closest interrogation of victims has terious origin has made its appearance in affliction. All give the same explanafailed to disclose the cause of the peculiar tion. They sleep with little or no covering It comes in the night, and bites its vic- and awake in the morning with discolored

urber of the peace.

During the last week numerous calls the lips, and the swelling and irritation

Ilinbs have swollen in places.

In the morning, after being bitten, he brushed from his arm a peculiar longe with which the evil is cured. An legged bug, with short wings attached to on of warm cloths and a simple, the forward part of its body.

The Silent Witnesses of the Sheldon FROM A PHOTOGRA Tragedy.

> "The life of Sheldon, and the life of many a one to come after him, are at science's mercy. If its findings are in his favor, the fact that he had led a foul life; that he had for years fought and bickered with his wife andlavished his devotion openly upon another woman; that his allol was shaky; that he was seen with the unfortunate woman last of all persons before he himself found her dead-al these things which In old-fashloned marder trials were of great pitch and moment, will become as naught.

USED RATS IN THE PULPIT

Which

Singed the

Hair,

Pistol or

Curling

Tongs?

The Rev. Harlan G. Mendenball, of Ject of his "Sample Room," and the presence of the rats, living and dead. He presented on the evils of drinking. The cate who believes in strong object lessons. preached on the evils of drinking. Mr. Mendenball is the pastor of the First "Sample Room," he said, was a trap to Presbyterian Church in the city where he catch men and boys. The beer, cigars and Presbyterian Caurch in the city where he cigarettes were the balt to this borrible lives. His congregation embraces some of trap. He then explained how the rata the most staid and dignified citizens of the would go into a cage and be caught just town. The other Sunday morning these good people were very much amazed on entering the church to see a small porgation who had arranged for a quiet drink tion of the room partitioned off and the took soda instead. The elderly people votwords "Sample Room" in red letters over ed Mr. Mendenhall a most valuable temthe door. Around the interior of the place bottles of beer and the clears and cigarwere several beer bottles, beer glasses, ettes used to point the moral is not repackages of cigarettes and a box of cigars. Forded. So strange was this sight that men and up the practice it will catch you eventuwomen crowded about the "Sample Room" ally." to get a clearer view of the wet goods. The sermon, with its striking object lea-The church buzzed with the excited whis- sons, was a tremendous success. A nun

rodents. The congregation was more mystifled than ever, and some of the small boys could not be restrained from laughing aloud. Two of the young women who sing in the choir screamed and attempted to jump up on the chairs. At this move the pastor assured the young women that the rats would remain in the cage and quiet

once more prevailed.

pers of the congregation when Mr. Men-denhall stepped from his private study "It may not catch you the first time, or been caught. "An untimely death awaits near the pulpit with several rats in a cage. always was the result after the rat had On the floor behind the pulpit lay two dead | men," declared the dominie,